

SN 09/396,429  
Page 2 of 27

## IN THE CLAIMS

Please consider the claims as follows:

1. (currently amended): A hardware upgrade for a set top terminal for use with a television program delivery system with menu selection of programs, the set top terminal having a microprocessor and microprocessor instructions for prompting generation of menus, the hardware upgrade comprising:
  - an interface to the set top terminal for receiving and processing subscriber input;
  - a modem connected to the interface capable of communicating with one or more headends, wherein the set top terminal receives television program signals based on the subscriber input; and
  - a microprocessor connected between the interface and the modem,  
wherein the hardware upgrade is a card insertable into the set top terminal to add a data modulation and demodulation function to the set top terminal such that data may be retrieved and downloaded from the one or more headends and stored in to a local storage.
2. (canceled).
3. (previously presented): The hardware upgrade of claim 1 further comprising  
memory connected to the microprocessor of the hardware upgrade.
4. (original): The hardware upgrade of claim 1 wherein the modem is capable of communicating with an interactive service.
5. (original): The hardware upgrade of claim 4 wherein the interactive service is outside of the television program delivery system.
6. (original): The hardware upgrade of claim 4 wherein the interactive service

362278-1

SN 09/396,429  
Page 3 of 27

is selected from a group consisting of home shopping, airline reservations, news, financial information, classified advertisements, home banking, and interactive teletext.

7. (original): The hardware upgrade of claim 1 wherein the modem is capable of communicating with an on-line database.

8. (original): The hardware upgrade of claim 7 wherein the on-line database is outside of the television program delivery system.

9. (original): The hardware upgrade of claim 7 wherein the on-line database contains data concerning one or more applications selected from a group consisting of home shopping, airline reservations, news, financial information, classified advertisements, home banking, and interactive teletext.

10. (previously presented): The hardware upgrade of claim 1 wherein the interface to the terminal comprises:

interactive software stored in memory of said hardware upgrade to provide enhanced functional capabilities for the set top terminal; and

processing circuitry to process said subscriber inputs associated with said interactive software.

Claims 11-13. (canceled).

14. (currently amended): A set top terminal for use with a television program delivery system with menu selection of programs, the set top terminal having a microprocessor and microprocessor instructions for prompting generation of menus and comprising:

a receiver adapted to receive programs; and

a first hardware upgrade comprising:

an interface to the set top terminal for receiving and processing subscriber input;

SN 09/396,429  
Page 4 of 27

a modem connected to the interface capable of communicating with one or more headends, wherein the set top terminal receives television program signals based on the subscriber input; and

a microprocessor connected between the interface and the modem, wherein the first hardware upgrade is a card inserted into the set top terminal to add a data modulation and demodulation function to the set top terminal such that data may be retrieved and downloaded data from the one or more headends and stored in to a local storage.

15. (canceled).

16. (original): The terminal of claim 14 wherein the terminal has an expansion card slot, and wherein the interface comprises at least one card connector adapted for use with the expansion card slot.

17. (canceled).

18. (original): The terminal of claim 14 wherein the terminal is an HDTV terminal.

19. (original): The terminal of claim 14 further comprising:  
one or more additional hardware upgrades connected to the terminal.

Claims 20-22. (canceled).

23. (original): The terminal of claim 19 wherein at least one of the one or more additional hardware upgrades is selected from the group consisting of an audio program reception hardware upgrade, an interactive hardware upgrade that receives interactive subscriber input and produces interactive output, and a storage hardware upgrade.

SN 09/396,429  
Page 5 of 27

24. (currently amended) A system comprising:  
a television program delivery system adapted to deliver television program signals; and  
a set top terminal having a microprocessor and microprocessor instructions for prompting generation of menus and comprising:  
a receiver adapted to receive at least some of the television program signals; and  
a hardware upgrade comprising:  
an interface to the set top terminal for receiving and processing subscriber input;  
a modem connected to the interface capable of communicating with one or more headends, wherein the set top terminal receives the television program signals based on the subscriber input; and  
a microprocessor connected between the interface and the modem,  
wherein the hardware upgrade is a card inserted into the set top terminal to add a data modulation and demodulation function to the set top terminal such that data may be retrieved and downloaded from the one or more headends and stored in to a local storage.

25. (original): The system of claim 24 wherein the television program delivery system is a cable television program delivery system.

26. (original): The system of claim 25 wherein the cable television program delivery system comprises an operations center, the operations center transmitting one or more of the programs to the terminal.

27. (original): The system of claim 26 wherein a particular one of the one or more headends transmitting one or more of the programs to the terminal.

28. (original): The system of claim 24 wherein the television program delivery

SN 09/396,429  
Page 6 of 27

system is a satellite broadcast system.

29. (original): The system of claim 24 wherein the terminal is an HDTV terminal.

30. (currently amended): A television terminal having a microprocessor and microprocessor instructions for prompting generation of menus, the television terminal comprising:

a television program receiver;

a hardware upgrade adding a data modulation and demodulation function to the television terminal comprising:

an interface to the television terminal for receiving and processing subscriber input;

a modem capable of communicating with one or more headends, wherein the television terminal receives television program signals based on the subscriber input; and

a microprocessor connected between the interface and the modem,

wherein the modem downloads data from the one or more headends to a local storage; and

an output connected to the receiver and the modem, wherein the output accepts the television program signals from the receiver and data signals from the modem.

31. (original): The television terminal of claim 30 wherein the output is a video display.

32. (original): The television terminal of claim 30 wherein the output is a connector port.

33. (canceled).

362278-1

SN 09/396,429  
Page 7 of 27

34. (previously presented): The television terminal of claim 30 further comprising memory connected to the microprocessor of the hardware upgrade.

35. (original): The television terminal of claim 30 wherein the modem is capable of communicating with an interactive service.

36. (original): The television terminal of claim 35 wherein the interactive service is outside of the television program delivery system.

37. (original): The television terminal of claim 35 wherein the interactive service is selected from a group consisting of home shopping, airline reservations, news, financial information, classified advertisements, home banking, and interactive teletext.

38. (original): The television terminal of claim 30 wherein the modem is capable of communicating with an on-line database.

39. (original): The television terminal of claim 38 wherein the on-line database is outside of the television program delivery system.

40. (original): The television terminal of claim 38 wherein the on-line database contains data concerning one or more applications selected from a group consisting of home shopping, airline reservations, news, financial information, classified advertisements, home banking, and interactive teletext.

41. (original): The television terminal of claim 30 wherein the television terminal is an HDTV terminal.

42. (currently amended): A method for delivering television programs through a television program delivery system with menu selection of programs, comprising:

362278-1

SN 09/396,429  
Page 8 of 27

receiving a television program from one or more headends;  
receiving subscriber input through an interface within a set top terminal, the set top terminal having a microprocessor and microprocessor instructions for prompting generation of menus;

communicating through a modem with the one or more headends using a hardware upgrade inserted into the set top terminal, the hardware upgrade adding a data modulation and demodulation function to the set top terminal having the modem, and the communicating step comprising:

transmitting data based on the subscriber input;  
receiving data from the one or more headends; and  
downloading data from the one or more headends to a local storage using the hardware upgrade and the modem; and  
displaying the television program and/or information based on the received data.

43. (original): The method of claim 42 wherein the received data comprises information concerning the television program.

44. (canceled).

45. (original): The method of claim 42 wherein the communicating step further comprises:

communicating with at least one interactive service.

46. (original): The method of claim 45 wherein the interactive service is outside of the television program delivery system.

47. (original): The method of claim 45 wherein the interactive service is selected from a group consisting of home shopping, airline reservations, news, financial information classified advertisements, home banking, and interactive teletext.

SN 09/396,429  
Page 9 of 27

48. (original): The method of claim 42 wherein the communicating step further comprises:

communicating with at least one on-line database.

49. (original): The method of claim 48 wherein the on-line database is outside of the television program delivery system.

50. (original): The method of claim 48 wherein the on-line database contains data related to one or more applications selected from a group consisting of home shopping, airline reservations, news, financial information, classified advertisements, home banking, and interactive teletext.

51. (previously presented): The method of claim 42 further comprising:  
providing a second upgrade to said set top terminal for storing digital data on a storage device.

52. (original): The method of claim 51 wherein the storage device is a disc.

53. (original): The method of claim 52 wherein the disc is a CD.

54. (original): The method of claim 53 wherein the CD is a CD-ROM.

55. (original): The method of claim 51 further comprising:  
processing the digital data stored on the storage device.

56. (original): The method of claim 51 wherein the stored digital data concerns one or more applications selected from a group consisting of games, education, encyclopedias, reference, and economics.

57. (original): The method of claim 51 wherein the received data comprises information concerning the television program, and the method further comprises:

SN 09/396,429  
Page 10 of 27

monitoring the information concerning the television program; and retrieving the stored digital data, in response to the monitoring step.

58. (original): The method of claim 42 further comprising:  
remotely receiving the interactive subscriber input.

59. (original): The method of claim 42 further comprising:  
generating a menu on a television, wherein the subscriber input comprises menu selections.

60. (currently amended) Apparatus for upgrading a capability of a set top terminal (STT), said STT having circuitry adapted to receive a data stream including a plurality of compressed television program signals, decompress a compressed program signal and provide a corresponding output signal adapted for use by a display device, said apparatus comprising:

a STT interface, for enabling communication with said STT; and  
a modem for providing on-line communications with a content provider, said modem being a card insertable into said STT to add a data modulation and demodulation function to said STT the set-top terminal as an upgrade feature.

61. (previously presented) The apparatus of claim 60, wherein:  
said on-line communications includes content other than said television program signals.

62. (previously presented) The apparatus of claim 61, wherein:  
said modem upgrade feature of said STT downloads data from one or more headends to a local storage.

63. (previously presented) The apparatus of claim 60, further comprising:  
a microprocessor connected between the interface and the modem.

SN 09/396,429  
Page 11 of 27

64. (currently amended) The apparatus of claim 60, further comprising:  
a tuner, for selecting a data stream including a plurality of encrypted data streams;  
a demodulator, for demodulating said selected data stream to produce a demodulated data stream; and  
a demultiplexer, for extracting an encrypted data stream from said demodulated data stream, said encrypted data stream being coupled to an said upgrade decryption module.

65. (previously presented) The apparatus of claim 60, wherein said STT includes a first processor for controlling said circuitry, said apparatus further comprising:  
an upgrade processor, for communicating with said first processor via said STT interface, said upgrade processor controlling said upgrade modem.